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CAGATCCGTT	GCTGGTTCGAT	CGACAGACAT	GCCTTCCGGT	CTCACCAAGA	GGCAGACGCA	GCTGAGTCCT	CCCCTGGCCT	160
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TGCTAATCAT	TGCAGTACCG	TCCCCAACCC	CAACACTGGA	GAGGACATCT	TGTACTACGA	GATGGAGATT	AGGCCCTTCT	320
CCCACCAGAT	CTACCCTGAT	CTGGAGCCGG	CCAACATGGT	TGGATACGAT	GGCATGTCCC	CAGGACCTAC	CATCATCGTT	400
CCTCGTGGCA	CTGAGAGTGT	TGTCCGCTTC	GTGAACAGCG	GAGAGAACAC	CTCTCCCAAC	AGCGTCCACT	TGCACGGCTC	480
TTTCTCTCGA	GCTCCCTTTG	ATGGTTGGGC	TGAGGACACT	ACCCAGCCTG	GCGAGTACAA	GGATTACTAC	TACCCCAACA	560
GGCAGGCTGC	CCGCATGCTT	TGGTACCATG	ACCATGCCAT	GTCCATCACC	GCCGAGAACG	CCTACATGGG	TCAGGCTGGT	640
GTCTACATGA	TCCAGGACCC	GGCTGAGGAT	GCCCTGAACC	TCCCCAGCGG	CTACGGCGAG	TTTGATATCC	CCTTGGTTCT	720
GACTGCCAAG	CGATACAACG	CAGACGGCAC	TCTCTTCTCC	ACCAATGGAG	AGGTTTCCAG	CTTCTGGGGT	GACGTTATTC	800
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TATCACAGAA	CGGTACGCCT	TGGCCTATGC	TCAACGTGCA	GCCGCGCAAG	TACCGCTTCC	GCTTCCTCAA	CGCTGCCGTC	960
TCACGCTCTT	TCGCTCTGTA	TCCTTGCTACC	TCTGAGGATT	CAGAGACCAG	ACTTCCCTTC	CAGGTCATTC	CCGCTGACGG	1040
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CCACCTTCGC	TGGCCAGTCC	ATCGATATCC	GCAACCTTCC	TGGTGCTGAC	GGTCTCGGTG	TTGAGCCTGA	GTTTGATAAC	1200
ACTGACAAGG	TCATGCGATT	CGTCGTTGAT	GAAGTCCTTG	AGTCGCCCCG	CACCTCTGAG	GTGCCTGCCA	ACCTCCGAGA	1280
TGTTCCCTTC	CCCGAGGGCG	GCAACTGGGA	CCCCGCAAAC	CCCACTGATG	ACGAGACTTT	CACCTTCGGC	CGTGCTAATG	1360
GACAGTGGAC	AATCAACGGA	GTTACCTTCT	CGGATGTCGA	GAACCGTCTG	CTCCGCAATG	TGCCCCGCGA	CACTGTTGAG	1440
ATCTGGCGAC	TTGAGAACAA	CTCCAACGGT	TGGACTCACC	CTGTTACACAT	TCACCTCGTT	GACTTCCGAG	TCCTTTCTCG	1520
ATCCACTGCC	CGTGGAGTCG	AGCCTTATGA	GGCTGCTGGT	CTCAAGGATG	TTGTCTGGCT	GGCTCGTCGT	GAGGTTGTCT	1600
ATGTTGAGGC	CCACTACGCT	CCTTTCCCGT	AAGTTCTCGC	CTTTTACCTA	ACTGGTTTTTC	ACTCATGCTA	ACATCTACAA	1680
GTGGTGTCTA	CATGTTGCAC	TGCCACAACC	TGATCCACGA	GGACCACGAC	ATGATGGCTG	CTTTCAATGT	CACTGTTCTC	1760
GGTGACTATG	GCTACAACCTA	CACCGAGTTC	ATTGACCCCA	TGGAGCCTCT	CTGGAGGCCC	CGCCCCCTTC	TCCTCGGAGA	1840
GTTCGAGAAT	GGCTCGGGTG	ACTTCAGCGA	GCTTGCCATC	ACTGACCSCA	TTCAGGAGAT	GGCTAGCTTC	AACCCCTACG	1920
CCCAGGCTGA	TGATGATGCC	GCTGAGGAGT	AGACCGGT					1958

FIGURE 1

MISQAIGAVA	LGLAVIGGSS	VDARSVAGRS	TDMPSGLTR	QTQLSPPLAL	YEVPLPIPPL	60
KAPNTVPNPN	TGEDILYYEM	EIRPFHQIY	PDLEPANMVG	YDGMSPGPTI	IVPRGTESVV	120
RFVNSGENTS	PNSVHLHGSF	SRAPFDGWAE	DTTQPGEYKD	YYYPNRQAAR	MLWYHDHAMS	180
ITAENAYMGQ	AGVYMIQDPA	EDALNLPSGY	GEFDIPLVLT	AKRYNADGTL	FSTNGEVSSF	240
WGDVIQVNGQ	PWPMLNVQPR	KYRFRFLNAA	VSRSFALYLA	TSEDSETRLP	FQVIAADGGL	300
LEGPVDTDTL	YISMAERWEV	VIDFSTFAGQ	SIDIRNLPGA	DGLGVEPEFD	NTDKVMRFVV	360
DEVLESPDTS	EV PANLRDVP	FPEGGNWDPA	NPTDDETTTF	GRANGQWTIN	GVTFSDEVNR	420
LLRNVPRDTV	EIWRLNNSN	GWTHPVHIHL	VDFRVLRSST	ARGVEPYEAA	GLKDVVWLAR	480
REVVYVEAHY	APFPGVYMLH	CHNLIHEDHD	MMAAFNVTVL	GDYGYNYTEF	IDPMEPLWRP	540
RPFLLGEFEN	GSGDFSELAI	TDRIQEMASF	NPYAQADDDA	AEE		583

FIGURE 2

CAGCTCGGTC	TACTACTCTC	GCTTCTCTTT	GACAAATCAA	ATCTACCAAT	CGTTCCTTCA	ATTTCAAACG	ATCAACATGA	80
TCAGCCAAGC	TATCGGAGCC	GTGGCTCTGG	GCCTTGCTGT	GATCGGCGGC	AGCTCTGTCT	ATGCCAGATC	CGTTGCTGGT	160
CGATCGACAG	ACATGCCTTC	CGGTCTCACC	AAGAGGCAGA	CGCAGCTGAG	TCCTCCCCTG	GCCTTGACG	AAGTGCCTCT	240
GCCGATCCCT	CCTCTGAAGG	CGCCCAAGTA	GTAAGTACAT	TCTATAGGCT	AGCAGAGCCA	ACGTGCTAA	TCATTGCAGT	320
ACCGTCCCCA	ACCCCAACAC	TGGAGAGGAC	ATCTTGTA	ACGAGATGGA	GATTAGGCC	TTCTCCCACC	AGATCTACCC	400
TGATCTGGAG	CCGGCCAACA	TGGTTGGATA	CGATGGCATG	TCCCCAGGAC	CTACCATCAT	CGTTCCCTCGT	GGCACTGAGA	480
GTGTTGTCCG	CTTCGTGAAC	AGCGGAGAGA	ACACCTCTCC	CAACAGCGTC	CACCTGCACG	GCTCTTTCTC	TCGAGCTCCC	560
TTTGATGGTT	GGGCTGAGGA	CACTACCCAG	CCTGGCGAGT	ACAAGGATTA	CTACTACCCC	AACAGGCAGG	CTGCCCCGAT	640
GCTTTGGTAC	CATGACCATG	CCATGTCCAT	CACCGCCGAG	AACGCCTACA	TGGGTCAGGC	TGGTGTCTAC	ATGATCCAGG	720
ACCCGGCTGA	GGATGCCCTG	AACCTCCCCA	GCGGCTACGG	CGAGTTTGAT	ATCCCCCTGG	TTCTGACTGC	CAAGCGATAC	800
AACGCAGACG	GCACTCTCTT	CTCCACCAAT	GGAGAGGTTT	CCAGCTTCTG	GGGTGACGTT	ATTCAAGTGG	TAAGTTGAGC	880
CCATTGAGAT	GCTTCAGATC	CTAGAAGTAT	CGATGTATGA	AATTGTGCAT	GCTCTAACCA	GTGCTATCAC	AGAACGGTCA	960
GCCTTGGCCT	ATGCTCAACG	TGCAGCCGCG	CAAGTACCGC	TTCCGCTTCC	TCAACGCTGC	CGTCTACCGC	TCTTTTCGCTC	1040
TGTATCTTGC	TACCTCTGAG	GATTCAGAGA	CCAGACTTCC	CTTCCAGGTC	ATTGCCGCTG	ACGGTGGTCT	GCTTGAGGGC	1120
CCTGTTGACA	CTGACACTCT	GTACATCTCT	ATGGCCGAGC	GCTGGGAGGT	TGTTATCGAC	TTCTCCACCT	TCGCTGGCCA	1200
GTCCATCGAT	ATCCGCAACC	TTCTTGGTGC	TGACGGTCTC	GGTGTGAGC	CTGAGTTTGA	TAACACTGAC	AAGGTCATGC	1280
GATTTCGTCT	TGATGAAGTC	CTTGAGTCGC	CCGACACTTC	TGAGGTGCCT	GCCAACCTCC	GAGATGTTCC	TTTCCCCGAG	1360
GGCGGCAACT	GGGACCCCGC	AAACCCCACT	GATGACGAGA	CTTTACCTT	CGGCCGTGCT	AATGGACAGT	GGACAATCAA	1440
GGGAGTTACC	TTCTCGGATG	TCGAGAACCG	TCTGCTCCGC	AATGTGCCCC	CGCACACTGT	TGAGATCTGG	CGACTTGAGA	1520
ACAACCTCAA	CGGTGGA	CACCTGTTC	ACATTACCTT	CGTTGACTTC	CGAGTCCTTT	CTCGTTCCAC	TGCCCCGTGGA	1600
GTTCGAGCCTT	ATGAGGCTGC	TGGTCTCAAG	GATGTTGTCT	GGCTGGCTCG	TCGTGAGGTT	GTCTATGTTG	AGGCCCCACTA	1680
GGCTCCTTTC	CCGTAAGTTC	TCGCCTTTTA	CCTAACTGGT	TTTCACTCAT	GCTAACATCT	ACAAGTGGTG	TCTACATGTT	1760
GCACTGCCAC	AACCTGATCC	ACGAGGACCA	CGACATGATG	GCTGCTTTCA	ATGTCACTGT	TCTCGGTGAC	TATGGCTACA	1840
ACTACACCGA	GTTTATTGAC	CCCATGGAGC	CTCTCTGGAG	GCCCCGCCCC	TTCTCCTCG	GAGAGTTTGA	GAATGGCTCG	1920
GGTGACTTCA	GCGAGCTTGC	CATCACTGAC	CGCATTCAGG	AGATGGCTAG	CTTCAACCCC	TACGCCCAGG	CTGATGATGA	2000
TGGCCGCTGAG	GAGTAAATAT	GATGATCGTC	GAATGATTTA	TGGACAGCAG	TATATAGCTA	TTTTAGGAAA	TACTTGAATA	2080
AGTTGTGGTG	CTTAA							2095

FIGURE 3

1 MFKHTLGAAALSL.LFNSSNAVQASVPV.ETSPATGHLFKRVAQISPOYPM 48
 1 MISQAIGAVALGLAVIGGSSVDARSVAGRSTDMPSGLTKRQTQLSPPLAL 50
 49 FTVPLPIPPVKQPRLTVTNPVNGQEIWYVEVEIKPFTHQVYPDLGSADLV 98
 51 YEVLPIPLKAPN.TVPNPNTGEDILYEMEIRPFSSHQIYPDLEPANMV 99
 99 GYDGMSPGPTFQVPRGVETVVRFINNAE..APNSVHLHGSFSRAAFDGWA 146
 100 GYDGMSPGPTIIVPRGTESVVRVFNSENGTSPNSVHLHGSFSRAPFDGWA 149
 147 EDITEPGSFKDYYPNRSARTLWYHDHAMHITAENAYRGOAGLYMLTDP 196
 150 EDTTQPGKEYKDYYPNQAARMLWYHDHAMSITAENAYMGQAGVYMIQDP 199
 197 AEDALNLPSCYGEFDIPMILTSKQYTANGNLVTTNGELNSFWGDVIHVG 246
 200 AEDALNLPSCYGEFDIPLVLTAKRYNADGTLFSTNGEVSSFWGDVIQVNG 249
 247 QPWPFKNVEPRKYRFRFLDAVSRSFGLYFADTDAIDTRLPPFKVIASDSG 296
 250 QPWPMNLVQPRKYRFRFLNAAVSRSFALYLATSEDSERLPPFQVIAADGG 299
 297 LLEHPADTSLLYISMAERYEVVDFSDYAGKTIELRNLGGSIGGIGTDTD 346
 300 LLEGVVDTDLTLYISMAERWEVVIDFSTFAGQSIDIRNLPGA.DGLGVEPE 348
 347 YDNTDKVMRFVVADDTTQPDTSVVPANLRDVPFSPPTNTNP.....RQF 390
 349 FDNTDKVMRFVVDEVLESPTDSEVPANLRDVPFPEGGNWDPANPTDDET 398
 391 RFGRGTGPTWTINGVAFADVQNRLLANVPVGTVERWELINAGNGWTHPIHI 440
 399 TFGRANGQWTINGVTFSDEVNRLLRNVPRDTVEIWRLNNSNGWTHPVHI 448
 441 HLVDKFKVISRTSGNNARTVMPYE.SGLKDVVWLGRRETVVVEAHYAPFPG 489
 449 HLVDKFRVLSRST...ARGVEPYEAAGLKDVVWLARREVVVEAHYAPFPG 495
 490 VYMFHCHNLIHEDHDMMAAFNATVLPDYGYNATVFVDPMEELWQARPYEL 539
 496 VYMLHCHNLIHEDHDMMAAFNVTVLGDYGYNYTEFIDPMEPLWRPRPFL 545
 540 GEFQAQSGQFSVQAVTERIQTMAEYRPHYAAADE 572
 546 GEFENGSGDFSELAITDRIQEMASFNPHYAQADD 578

FIGURE 4

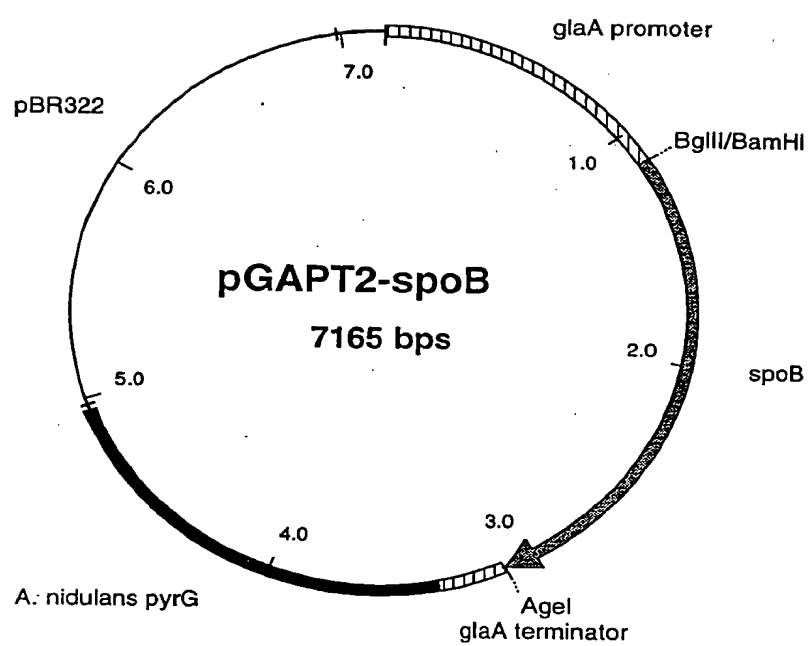


FIGURE 5

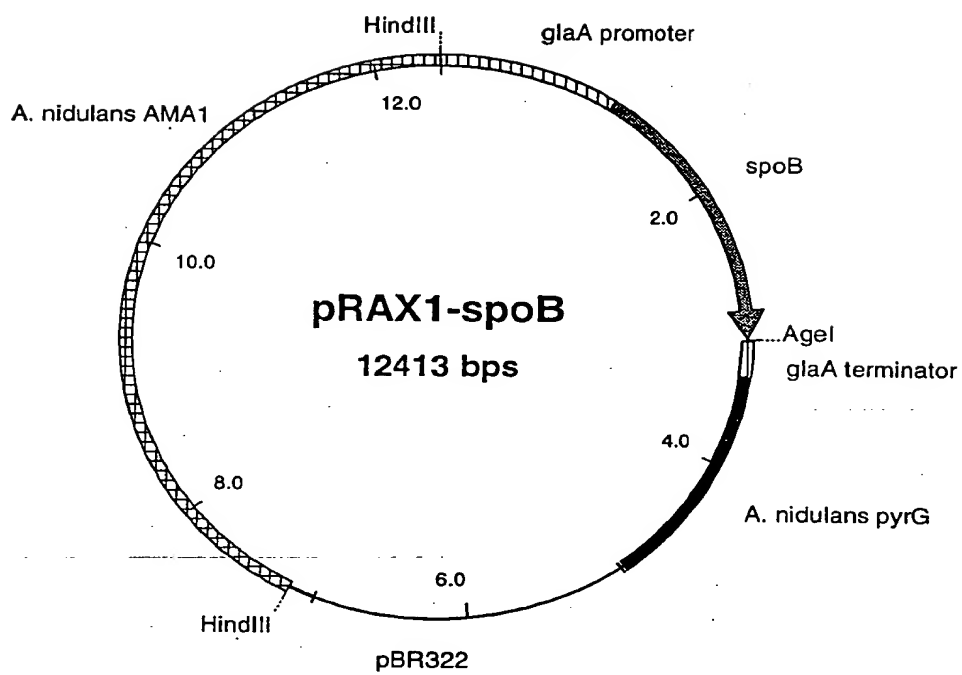


FIGURE 6

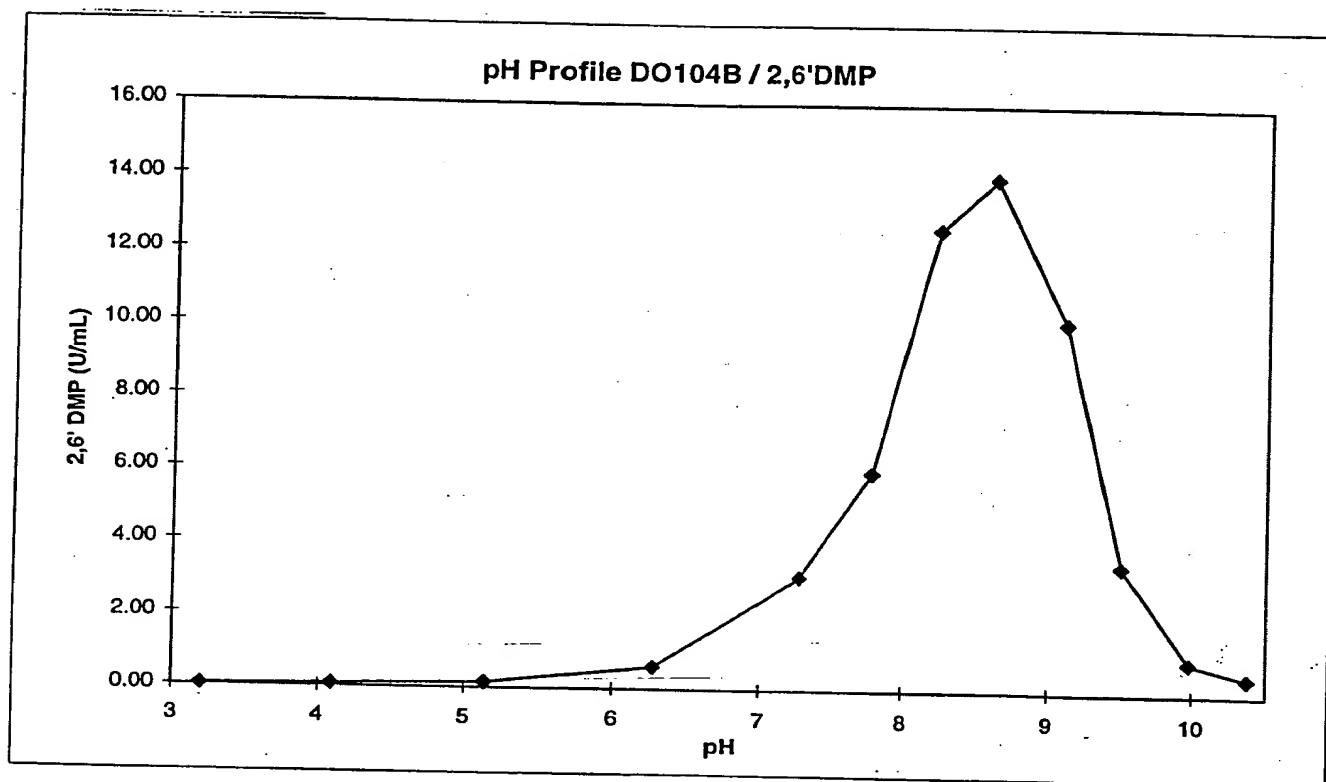


FIGURE 7

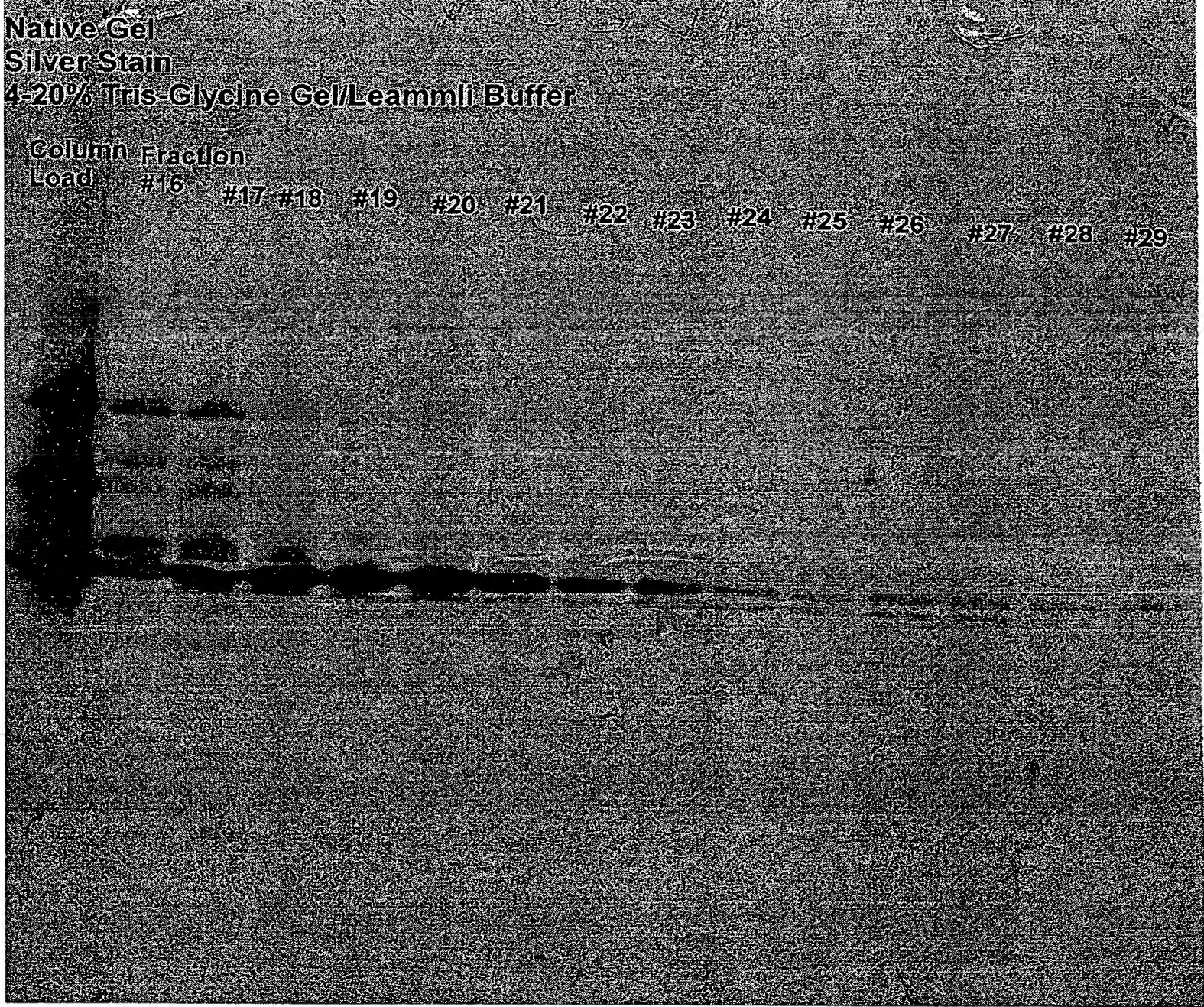


FIGURE 8

Native Gel
ABTS Overlay, pH7
Tris-Glycine Gel 4-20

Band#1

Band#2

FIGURE 9

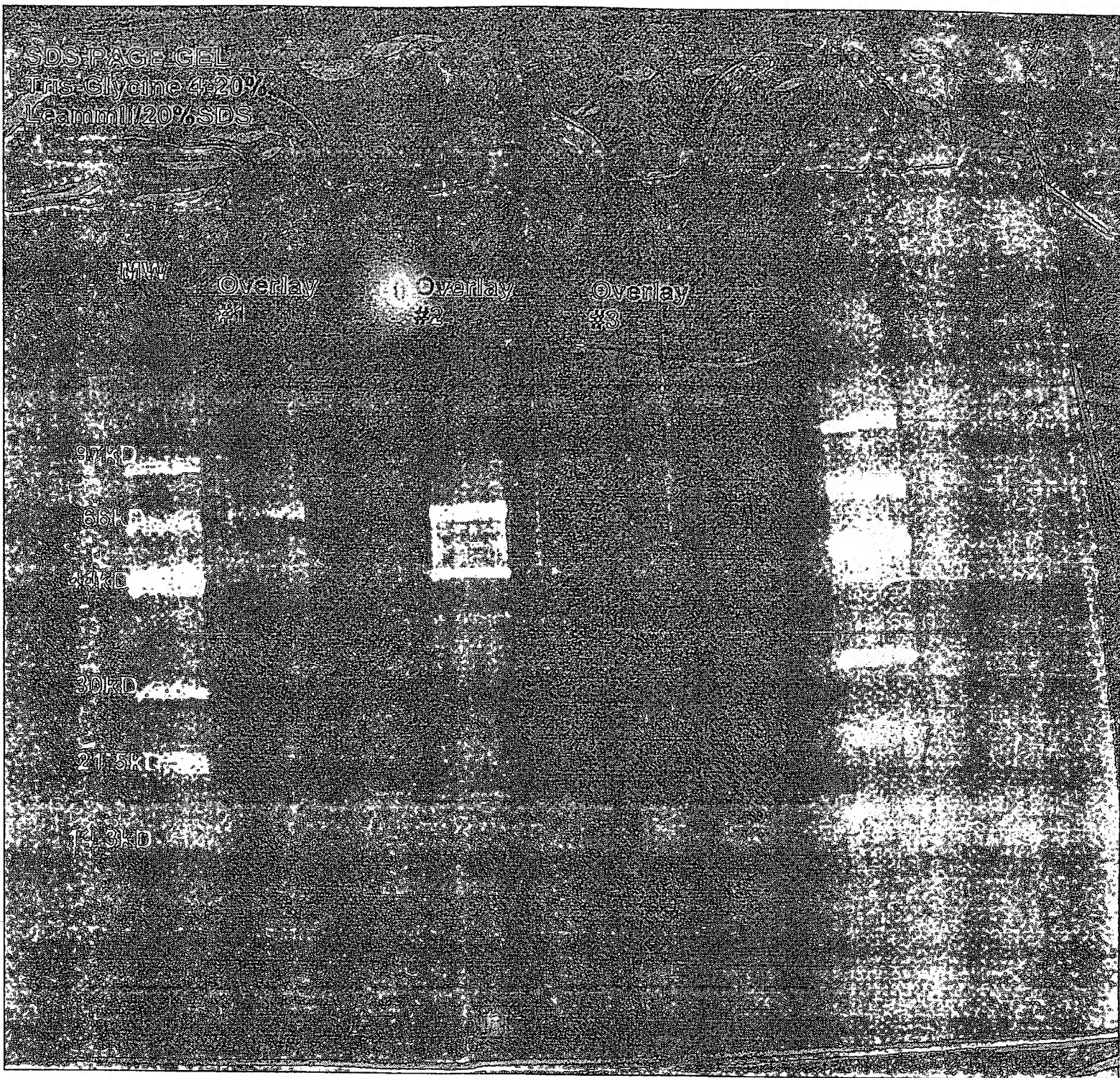


FIGURE 10